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WATER SUPPLY OUTLOOK FOR IDAHO



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAR. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK for IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MARCH 1, 1978

Water supplies for 1978 are forecast to be good to excellent throughout Idaho. April through September seasonal runoff is predicted to range from 90 percent of average for the Kootenai River at Leonia to 169 percent of normal for Montpelier Creek near Montpelier.

In general, snowfall during February was near to well above normal. Snowpack accumulation near March 1 varied from a low of 92 percent of normal on the Clearwater River watershed to a high of 154 percent of average on the Malad River drainage in southeastern Idaho. The exception is the Palouse drainage in northern Idaho with only 56 percent of normal snowpack.

Reservoir storage has improved greatly during the fall and winter months after the record low carryover of October, 1977. Many reservoirs are now in flood control operation. Storage at the beginning of the irrigation season is expected to be good to excellent.

Soil moisture is good to excellent at low and middle elevations and near normal under the snowpack at higher elevations.

Mild temperatures continued to be felt over Idaho in February, and the precipitation was above normal for most of the State.

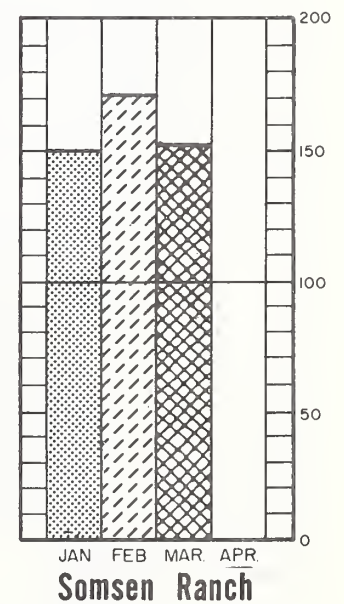
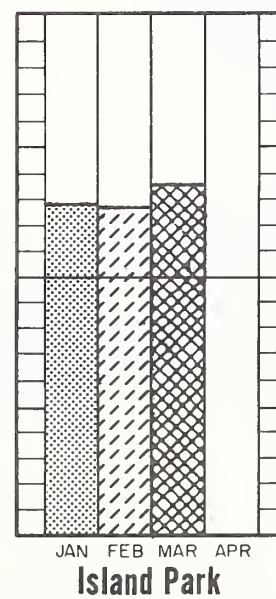
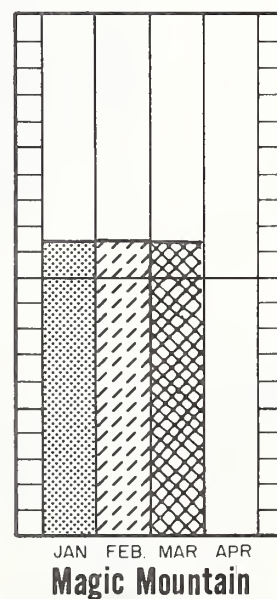
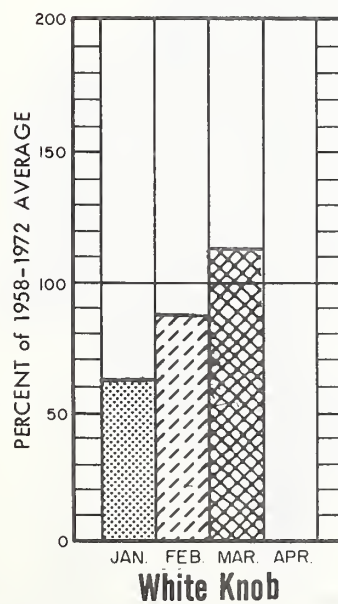
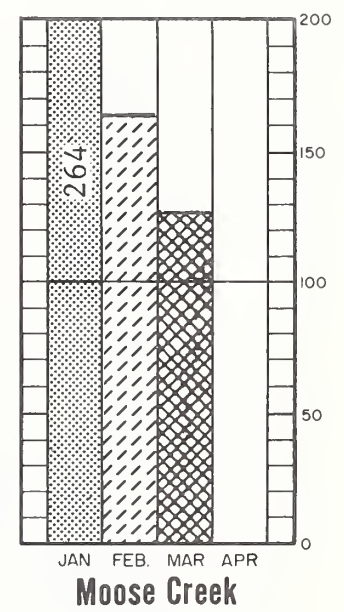
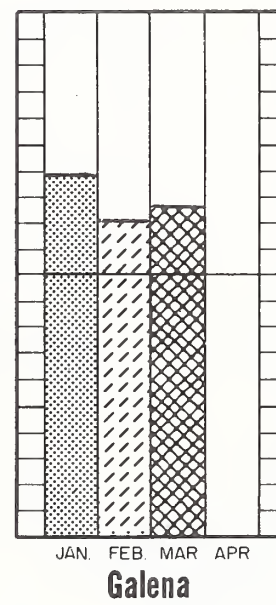
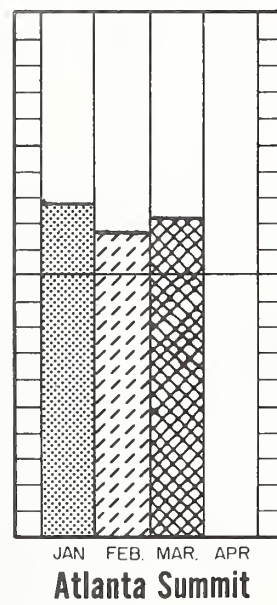
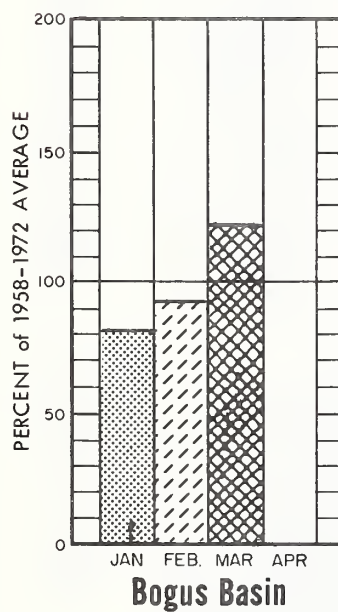
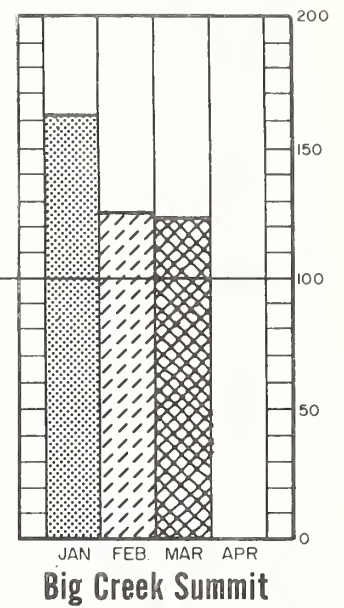
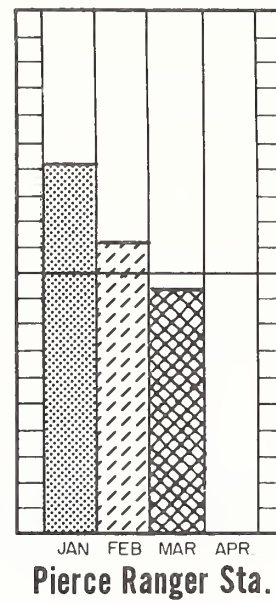
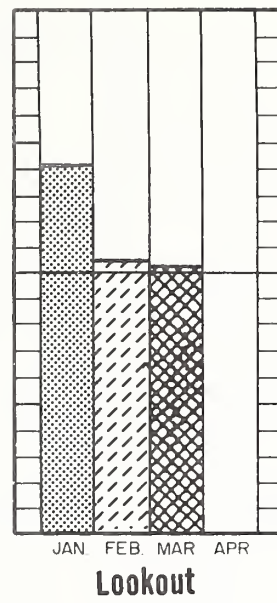
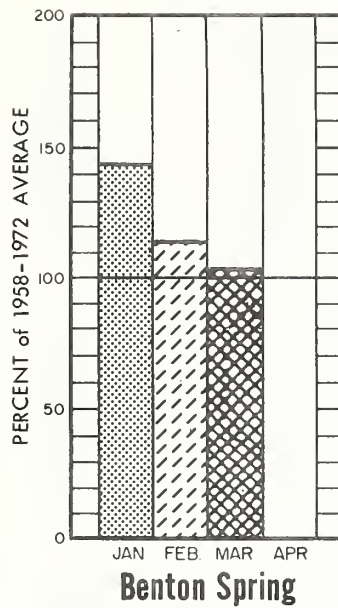
The precipitation over Idaho in February averaged 137 percent of normal. It ranged from 74 percent at Kellogg and 96 percent at Porthill to 183 percent at Ketchum and 184 percent at Ashton. For the 1977-1978 water year, Idaho stands at 124 percent of normal.

Temperatures averaged 2 degrees above normal in the northern and central parts of the State to 4 degrees in the southeastern part of the State.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1958-1972 15 Yr. Average

MARCH 1, 1978



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1958-72 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	41	241	92
Pend Oreille River	91	289	107
Clark Fork River - Ab. Missoula	36	271	108
Flathead River	31	224	104
Priest River	4	370	103
Spokane River	11	286	93
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	1042	56
Clearwater River	17	279	92
Salmon River	14	690	112
Lemhi River	6	629	104
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	1329	113
Big Lost River	7	1045	106
Fish Creek	2	611	126
Little Wood River	4	993	116
Big Wood River	9	970	120
Canyon Creek	1-3	690	141
Boise River	12	765	122
Payette River	14	628	121
Weiser River	2	610	108
Mann Creek	4	603	-
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	7	581	128
Goose-Trapper Creeks	3	506	113
Salmon Falls Creek	10	322	110
Bruneau River	5	257	115
Owyhee River	5	610	140
Jordan Creek	2	515	125
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Wyoming	28	440	137
Camas-Beaver Creeks	2	518	122
Henrys Fork River	6	363	120
Teton River	2-11	406	122
Willow Creek	7-9	557	118
Blackfoot River	3-4	533	151
Portneuf River	4	408	123
<u>GREAT BASIN</u>			
Bear River - Upper	7	535	139
Bear River - Lower	22	531	134
Montpelier Creek	4-6	552	150
Mink Creek	7	547	134
Cub River	2-4	391	137
Malad River	4-6	950	154

SNOW WATER DEPTHS




As percent of 1958-72 15 year average

MARCH 1, 1978

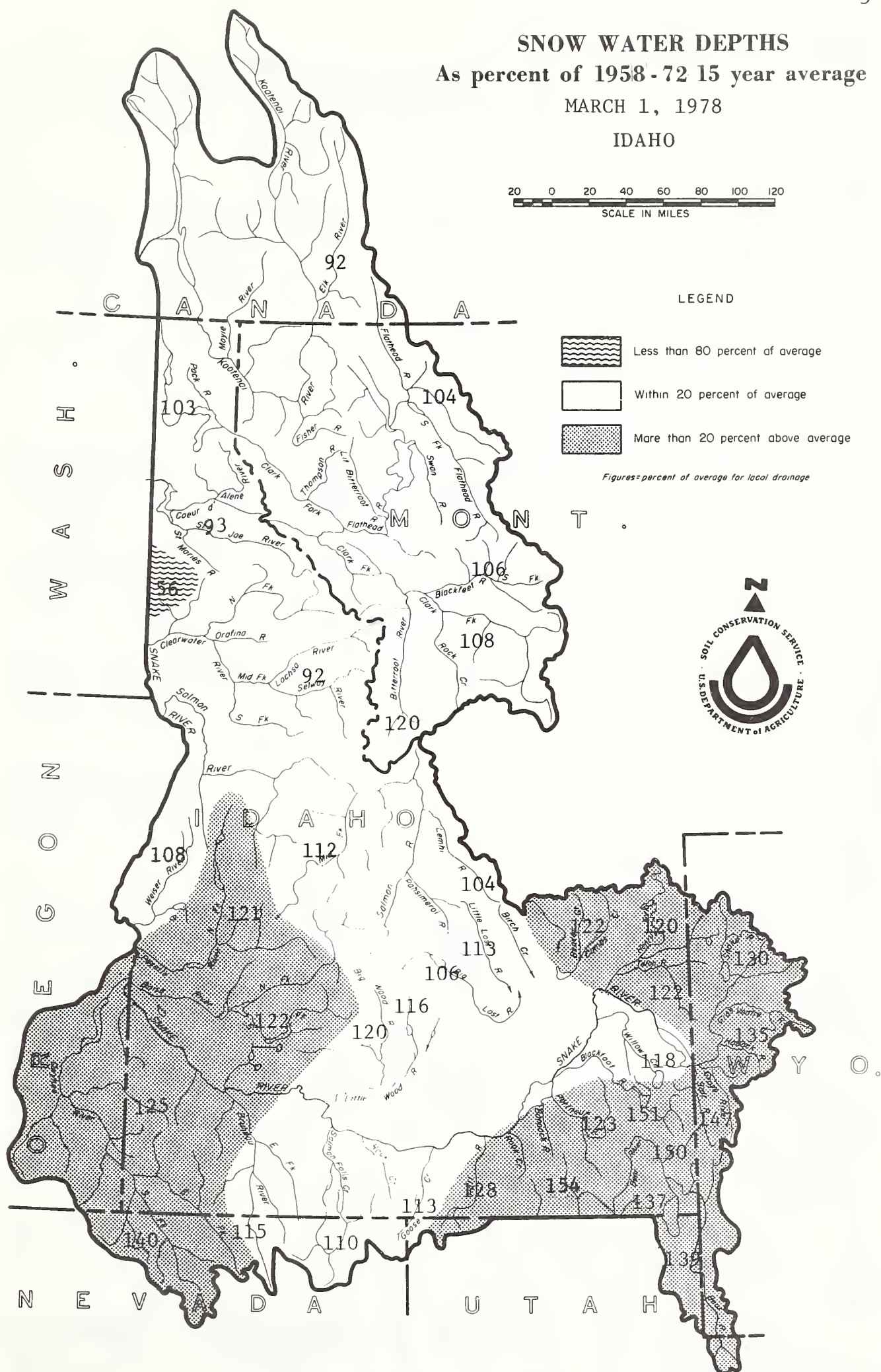
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20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND

-  Less than 80 percent of average
-  Within 20 percent of average
-  More than 20 percent above average

Figures=percent of average for local drainage



RESERVOIR STORAGE (1,000 Ac. Ft.)

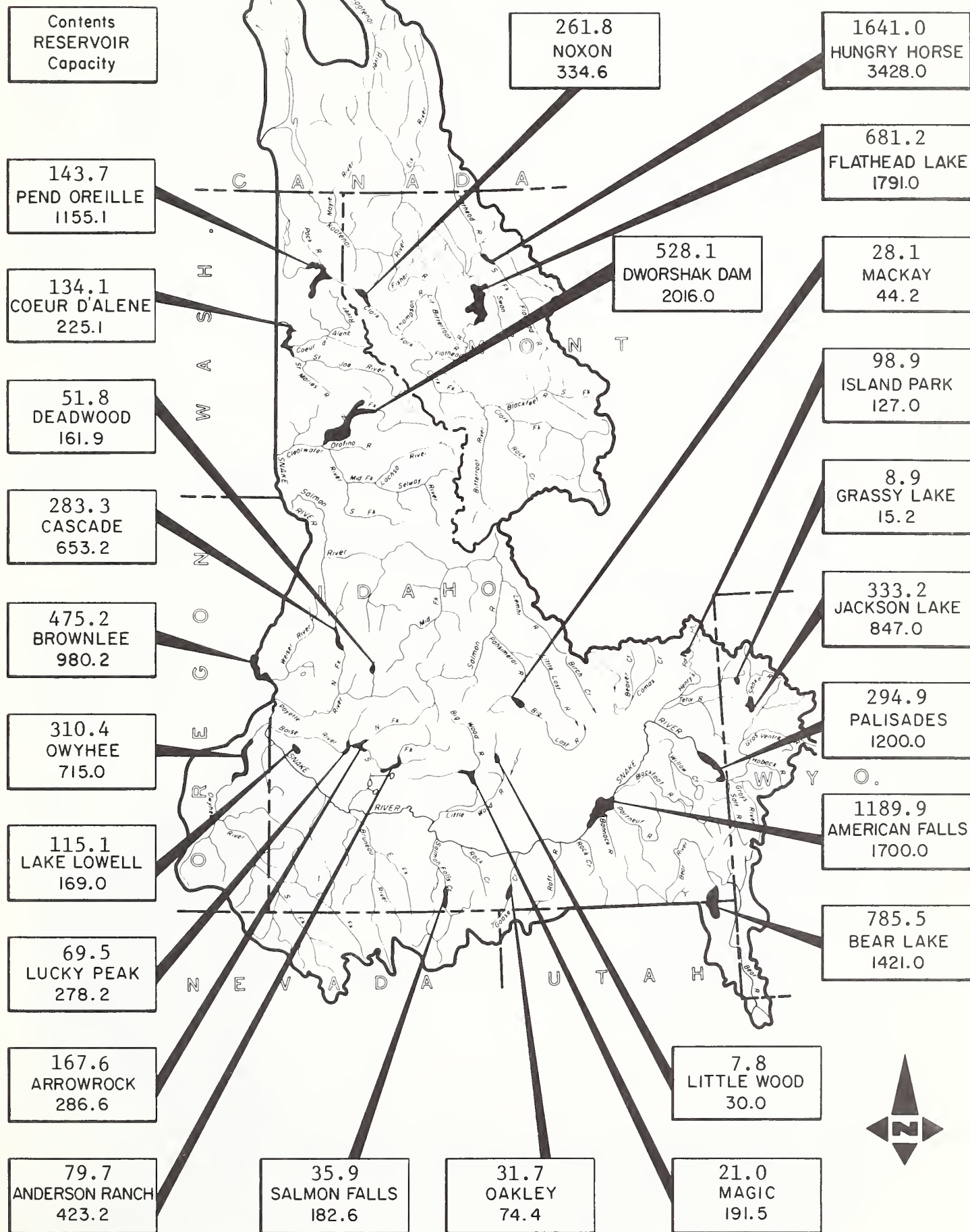
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1641.0	2326.0	2329.0
Flathead	1791.0	681.2	703.8	1009.0
Pend Oreille	1155.1	143.7	230.4	457.0
Noxon	334.6	261.8	290.0	300.6
<u>Spokane</u>				
Coeur d'Alene	225.1	134.1	17.1	162.3
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	333.2	597.9	533.3
Palisades	1200.0	294.9	1083.3	809.0
American Falls	1700.0	1189.9	1103.8	789.1
Island Park	127.0	98.9	122.1	113.5
Grassy Lake	15.2	8.9	10.6	10.3
Brownlee	980.2	475.2	778.8	451.1*
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	31.7	45.2	19.3
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	35.9	82.0	34.5
<u>Big Lost</u>				
Mackay	44.2	28.1	25.8	31.9
<u>Big Wood</u>				
Magic	191.5	21.0	74.0	103.5
<u>Little Wood</u>				
Little Wood	30.0	7.8	11.8	15.5
<u>Fish Creek</u>				
Carey Valley	14.4	3.0	5.5	--
<u>Boise</u>				
Anderson Ranch	423.2	79.7	329.7	237.6
Arrowrock	286.6	167.6	201.5	247.9
Lucky Peak	278.2	69.5	86.6	89.2
Lake Lowell (Deer Flat)	169.0	115.1	122.1	132.0
<u>Owyhee</u>				
Owyhee	715.0	310.4	505.0	451.2
<u>Payette</u>				
Cascade	653.2	283.3	357.2	325.9
Deadwood	161.9	51.8	85.8	78.8
<u>Weiser</u>				
Mann Creek	11.1	6.6	3.2	--
<u>Clearwater</u>				
Dworshak	2016.0	528.1	717.6	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	785.5	1040.3	958.3
*Period of Record.				

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1978

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonla	(at)	8150	90	Apr-Sep	4910	9073
		7170	90	Apr-Jul	3844	7957
		5800	90	Apr-Jun	3050	6431

PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	14400	102	Apr-Sep	--	14083
		13100	102	Apr-Jul	--	12852
		11300	102	Apr-Jun	--	11092

Priest River <u>1/</u>	(nr)	870	99	Apr-Jul	--	879
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SPOKANE RIVER

Post Falls <u>2/</u>	(at)	3000	100	Apr-Sep	1066	3008
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St. Joe River

Calder	(at)	1275	95	Apr-Sep	--	1345
		1210	95	Apr-Jul	--	1277

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran <u>3/</u>	(nr)	1140	133	Apr-Sep	340	858
Palisades Inflow <u>3/</u>		4950	134	Apr-Sep	1031	3714
Heise <u>4/</u>	(nr)	5250	133	Apr-Sep	1494	3946
Blackfoot <u>5/</u>	(nr)	5400	129	Apr-Jul	--	4173

Henrys Fork

Ashton <u>6/</u>	(nr)	755	112	Apr-Sep	--	671
Rexburg <u>7/</u>	(nr)	1570	115	Apr-Sep	--	1364

Teton River

St. Anthony	(nr)	515	116	Apr-Sep	--	442
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(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

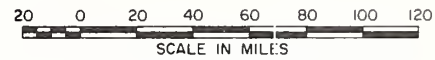
[†] 1958-1972 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1, 1978

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LEGEND



Less than 80 percent of average

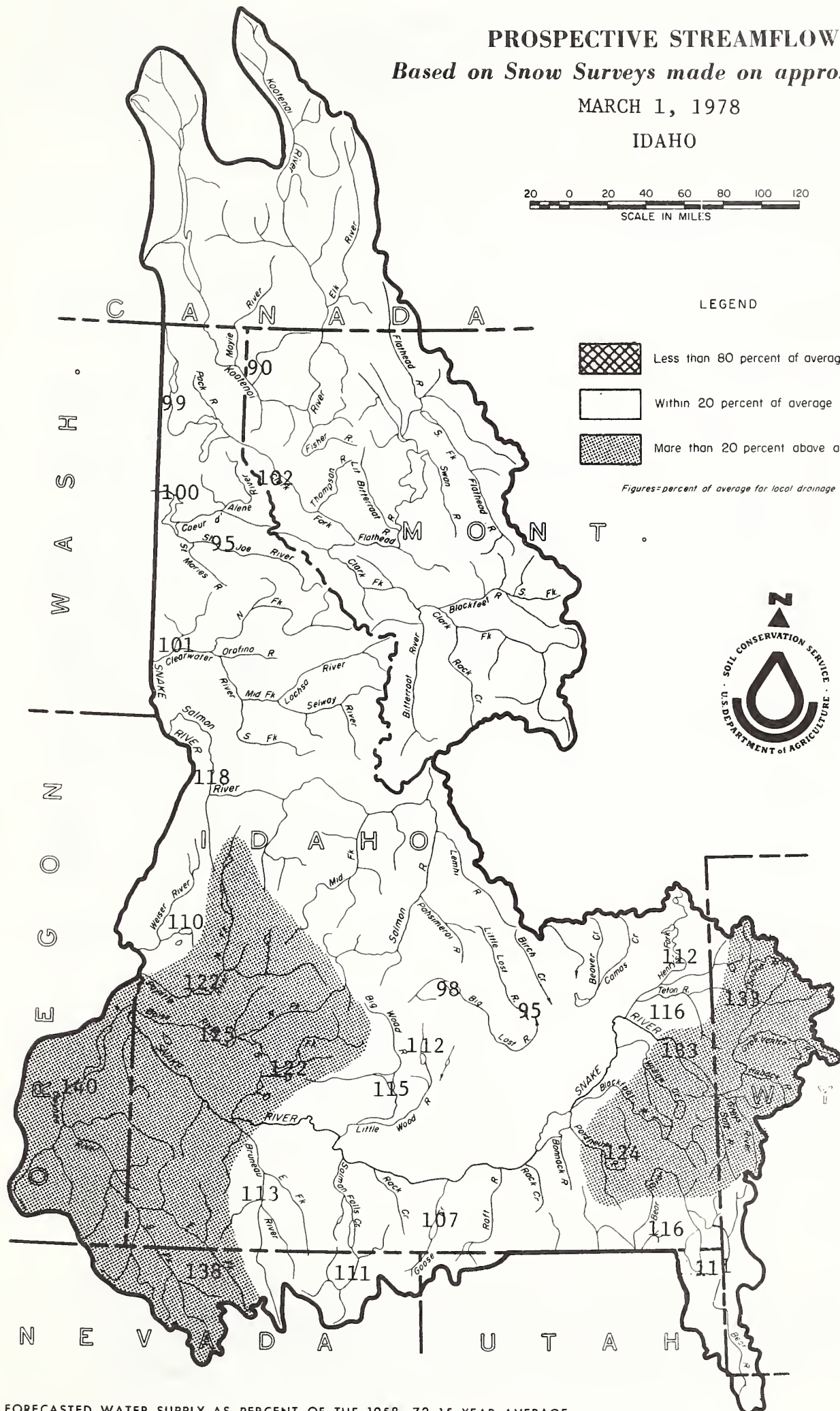


Within 20 percent of average



More than 20 percent above average

Figures—percent of average for local drainage



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958-72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR			PAST RECORD		
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET		
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]	
BASIN, STREAM and/or FORECAST POINT							
<u>Portneuf River</u>							
Topaz	(at)	115	124	Mar-Sep			93
Oakley Reservoir Inflow		31.5	107	Mar-Sep			29.5
<u>Salmon Falls Creek</u>							
San Jacinto	(nr)	93	111	Mar-Sep	--		84
		89	111	Mar-Jul	--		80
<u>Bruneau River</u>							
Hot Springs	(nr)	255	113	Mar-Sep			226
<u>Little Lost River</u>							
Howe	(nr)	39	95	Apr-Sep			41
<u>Big Lost River</u>							
Howell Ranch	(at)	205	99	Apr-Sep			208
Mackay <u>1/</u>	(nr)	180	98	Apr-Sep			183
<u>Big Wood River</u>							
Magic Reservoir		345	115	Apr-Sep			301
Inflow <u>2/</u>		365	118	Mar-Jul			310
<u>Little Wood River</u>							
High Five Creek	(ab)	105	112	Apr-Sep			94
<u>Boise River</u>							
Twin Springs	(nr)	900	125	Apr-Sep			720
		835	126	Apr-Jul			665
Boise <u>3/</u>	(nr)	2020	125	Apr-Sep			1612
<u>South Fork</u>							
Anderson Dam <u>4/</u>	(at)	735	122	Apr-Sep			603
<u>Owyhee River</u>							
Gold Cr., Nev. <u>5/</u>	(nr)	25	138	Apr-Jul			18
		30	130	Mar-Jul			23
Owyhee, Nev. <u>5/</u>	(nr)	83	122	Apr-Jul			68
		95	117	Mar-Jul			81
Lake Owyhee		465	140	Apr-Sep			332
net inflow <u>6/</u>		582	135	Mar-Jul			431

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
 rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
 storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

[†] 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Payette River</u>						
Horseshoe Bend <u>1</u> /	(nr)	2260	122	Apr-Sep		1850
<u>North Fork</u>						
Cascade <u>3</u> /	(at)	675	120	Apr-Sep		562
Banks <u>3</u> /	(nr)	875	120	Apr-Sep		730
<u>Weiser River</u>						
Weiser ab. Crane Creek <u>4</u> /		560	110	Mar-Sep		511
<u>Salmon River</u>						
Whitebird	(at)	8200	118	Apr-Sep		6959
<u>Clearwater River</u>						
Spalding	(at)	8730	101	Apr-Sep		8605
<u>GREAT BASIN</u>						
<u>BEAR RIVER</u>						
Harer	(at)	330	111	Apr-Sep	35	297
<u>Montpelier Creek</u>						
Montpelier	(nr)	21	169	Apr-Sep		12.4
<u>Cub River</u>						
Preston	(nr)	58	116	Apr-Sep	--	50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. [†] 1958-1972 period.

VALLEY PRECIPITATION 1/
 Division Averages and Departures
 In Inches

DRAINAGE DIVISIONS	Winter February 1978		Fall - Winter Nov. 77 - Feb. 78	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	1.29	-0.66	12.15	0.50
Flathead	1.12	-0.62	10.21	1.01
Clark Fork	0.95	-0.32	8.11	1.33
Pend Oreille-Spokane	2.01	-0.83	15.85	0.83
Upper Snake	2.83	0.98	12.77	4.18
Snake River Plain	1.13	0.35	5.19	0.89
Salmon-Payette-Boise	2.46	0.71	13.00	2.94
Clearwater	2.94	0.07	18.79	3.87
Owyhee-Malheur	1.47	0.62	6.75	1.93

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

#Bear Mountain	5400	2/22	119	49.1	--	59.1*
Halverson Creek	4850	2/22	104	39.0	--	44.3*

PEND OREILLE - PRIEST RIVER

Bear Mountain	5400	2/22	119	49.1	--	59.1*
Benton Meadow	2370	2/27	21	6.8	1.6	6.1
Benton Spring	4900	2/27	52	18.0	4.1	17.4
#Mosquito Ridge (A)	5110	3/2	106	38.9	13.3	34.7*
Schweitzer Bowl	4500	2/27	71	27.1	8.2	27.8*
Schweitzer Ridge	6100	2/27	106	42.2	11.5	39.9*

HAYDEN LAKE

Chilco Ridge	3650	2/23	18	6.6	1.4	--
Conie Ridge	3900	2/23	23	8.4	1.6	--
Corner Creek	3150	2/23	20	6.2	3.2	--
Sage Creek Saddle	4100	2/23	46	16.6	5.2	--

SPOKANE RIVER

Above Burke	4100	2/27	58	19.1	8.8	--
Copper Ridge	4800	2/22	57	20.3	7.8	25.7
#Forty-nine Meadows	4880	3/1	77	21.6	6.6	28.4*
Fourth of July Summit	3200	2/22	23	8.0	2.7	7.3*
Granite Peak	6000	3/1	109	32.2	10.2	37.7*
Kellogg Peak (A)	5560	3/2	91	32.3	9.2	--
Lookout	5120	2/27	90	33.0	10.0	32.4
#Lost Lake	6000	3/1	134	42.2	15.1	51.3*
Lower Sands Creek	3400	2/22	42	14.6	6.2	17.5
Mosquito Ridge (A)	5110	3/2	106	38.9	13.3	34.7*
Roland Summit (A)	5200	3/2	85	29.6	10.0	31.3*
Sherwin	3200	2/24	28	8.8	3.5	13.8*
Sunset (A)	5600	3/2	117	41.6	16.4	33.7*

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	2/28	13	3.9	0.0	7.8*
East Twin	4050	2/28	16	5.0	0.4	11.1
Howard Creek	3500	2/24	5	1.6	0.0	4.5*
Moscow Mountain	4400	2/28	41	12.5	2.2	15.3
West Twin	4250	2/28	14	4.1	0.0	9.4

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SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
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NAME		Elevation				Last Year	Average ^b

CLEARWATER RIVER

Breezy Saddle		5000	3/1	80	23.5	7.7	--
Cayuse Airstrip		3700	2/28	31	8.9	4.7	11.7
Cottonwood Butte		5140	2/24	39	11.3	2.0	--
Crater Meadows		6100	2/28	104	33.3	16.3	40.9*
Crooked Fork		3600	2/27	44	13.8	4.9	12.9*
Elk Butte		5550	3/1	92	27.9	11.8	35.0*
Fish Lake Airstrip		5000	2/28	95	28.7	12.4	37.3
Forty-nine Meadows		4880	3/1	77	21.6	6.6	28.4*
Goat Lake		6600	2/28	136	43.7	14.5	43.8*
#Granite Peak		6000	3/1	109	32.2	10.2	37.7*
Hemlock Butte		5500	2/28	120	37.9	15.9	42.8*
#Hoodoo Basin	Mont.	6000	3/3	122	46.7	14.8	46.1
#Hoodoo Creek	Mont.	5900	3/3	116	43.4	12.2	43.2
Lolo Pass		5240	2/27	86	31.0	8.3	28.5
Lost Lake		6000	3/1	134	42.2	15.1	51.3*
Lower Snowhaven		5300	2/24	59	17.9	3.1	--
#Nez Perce Pass	Mont.	6575	3/3	57	19.7	7.0	14.3
Pierce Ranger Station		3170	3/1	30	9.6	4.6	10.3
Savage Pass		6170	2/27	82	27.6	8.0	24.3
Shanghai Summit		4600	2/28	74	21.4	8.3	24.5*
Upper Snowhaven		5600	2/24	50	17.6	2.8	--

SALMON RIVER

Big Creek Summit		6600	2/26	110	38.6	4.6	31.4
Borah (A)		8250	3/1	24	8.1	0.0	--
#Boulder Creek		5500	2/27	69	22.6	3.7	21.8*
Brundage Mountain		7560	2/27	129	47.5	5.9	42.2*
#Deadwood Summit		7000	2/28	128	47.1	5.5	40.4*
Doublespring Pass (A)		8400	3/1	36	12.1	0.3	--
#Galena Summit		8795	3/1	72	25.0	2.8	20.6
#Gibbons Pass	Mont.	7100	2/23	70	25.1	5.2	20.5
Leatherman Pass		9800	3/1	62	23.2	2.6	--
#Lemhi Pass	Mont.	7480	3/3	39	10.8	2.5	7.9
#Lemhi Ridge	Mont.	8100	3/3	46	13.8	2.9	8.9
Mill Creek Summit		8870	3/1	59	21.3	2.6	20.3*
Moose Creek		6200	2/28	63	19.2	4.6	15.2
Morgan Creek		7580	3/1	45	15.1	2.0	12.6*
Redfish Lake Flat		6570	2/27	46	13.6	1.6	8.7*
#Rock Flat Summit		5200	2/27	66	19.3	3.4	16.2
#Secesh Summit		6520	2/27	97	35.1	5.6	--
#Squaw Meadow		5800	2/27	99	35.7	5.7	31.1*
Twin Peaks (A)		10300	3/1	75	27.1	3.7	--
Vienna Mine		8960	2/28	99	37.8	5.3	32.2
Williams Creek Summit		7800	2/27	48	14.4	2.5	11.0

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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Lemhi River

Above Gilmore	8200	3/1	33	9.1	1.0	8.6*
Aspen-Hall Pass (A)	8110	3/1	37	9.7	2.4	7.7*
Copes Camp	7500	3/1	31	7.5	1.3	6.6*
Hall Creek	7560	3/1	20	3.8	0.3	4.8*
Meadow Lake	9100	3/1	49	16.7	2.6	17.1*
Schwartz Lake	8500	3/1	41	11.1	1.6	11.0*

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Station	6750	2/24	22	5.8	0.0	4.5
Lost Garfield	6600	2/24	26	6.6	0.0	3.8
Moonshine	7450	2/24	40	11.0	1.1	9.8
Sawmill Canyon	6900	2/24	35	8.6	1.1	7.4
Wet Creek Summit	7600	2/23	35	9.2	0.9	10.9

BIG LOST RIVER

Bear Canyon	7920	3/4	52	15.2	1.6	16.3
Copper Basin	7650	3/4	35	8.8	0.0	8.6
Iron Bog	7650	2/28	49	14.9	1.2	13.8*
Leadbelt	6800	2/28	40	11.0	1.4	9.0*
#Leatherman Pass	9800	3/1	62	23.2	2.6	--
Lost-Wood Divide	7900	3/3	63	22.6	2.6	20.5
Stickney Mill	7500	3/3	31	7.9	0.9	8.4
White Knob	7700	2/27	33	9.5	0.9	8.4*

FISH CREEK

Iron Mine Creek	6370	3/3	39	12.0	2.3	9.7
Telfer Ranch	6000	3/3	33	10.0	1.3	7.7

LITTLE WOOD RIVER

#Bear Canyon	7920	3/4	52	15.2	1.6	16.3
Garfield Ranger Station	6554	2/28	44	13.7	1.0	10.0
Muldoon	6300	2/28	31	9.4	0.9	7.8
Swede Peak	7650	2/28	60	19.4	2.3	15.4

BIG WOOD RIVER

Camas Creeks Divide	5720	3/3	34	12.2	1.5	--
#Couch Summit	6950	2/26	66	20.3	2.1	16.9*
Galena	7300	3/1	59	21.6	1.4	17.2
Galena Summit	8795	3/1	72	25.0	2.8	20.6

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SNOW

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Graham Ranch	6200	3/1	46	13.8	1.2	12.4
#Lost-Wood Divide	7900	3/3	63	22.6	2.6	20.5
Mascot Mine	7900	3/3	46	15.1	1.5	12.1
Mount Baldy	9000	2/27	71	22.5	2.3	18.0
Soldier Ranger Station	6100	2/26	49	15.4	0.8	11.2
#Vienna Mine	8960	2/28	99	37.8	5.3	32.2

CANYON CREEK

Bennett Mountain	6650	3/3	56	22.0	4.4	15.5*
#Camas Creeks Divide	5720	3/3	34	12.2	1.5	--
Little Camas Flat	4950	3/3	28	9.4	0.4	--

BOISE RIVER

Atlanta Summit	7500	2/28	106	36.8	4.3	30.2
Bad Bear	5500	2/27	47	15.9	1.9	13.1*
#Bennett Mountain	6650	3/3	56	21.9	4.4	15.5*
#Bogus Basin	6120	2/27	73	25.3	4.8	20.7
Bogus Basin Road	5360	2/27	25	8.5	1.3	5.4
#Camas Creeks Divide	5720	3/3	34	12.2	1.5	--
Couch Summit	6950	2/26	66	20.3	2.1	16.9*
Deadman Gulch	5600	2/28	51	16.7	4.0	14.0*
Graham Guard Station	5690	2/28	60	21.1	2.6	--
Jackson Peak	7000	2/28	94	33.3	5.0	27.2*
#Little Camas Flat	4950	3/3	28	9.4	0.4	--
Moore's Creek Summit	6100	2/27	101	35.8	4.0	28.5
Prairie	4900	2/26	18	5.8	0.8	5.3
#Soldier Ranger Station	6100	2/26	49	15.4	0.8	11.2
Trinity Mountain	7780	2/27	117	45.2	4.5	37.8
#Vienna Mine	8960	2/28	99	37.8	5.3	32.2

PAYETTE RIVER

#Big Creek Summit	6600	2/26	110	38.6	4.6	31.4
Bogus Basin	6120	2/27	73	25.3	4.8	20.7
#Brundage Mountain	7560	2/27	129	47.5	5.9	42.2*
Cozy Cove	5400	2/28	53	18.6	3.5	15.1
Crawford Ranger Station	4800	2/26	29	10.0	1.6	7.7
#Deadman Gulch	5600	2/28	51	16.7	4.0	14.0*
Deadwood Airstrip	5440	2/28	52	18.9	3.8	14.5
Deadwood Summit	7000	2/28	128	47.1	5.5	40.4*
High Valley Summit	5170	2/28	44	14.2	3.1	10.3*
#Jackson Peak	7000	2/28	94	33.3	5.0	27.2*
Lake Fork	6000	2/27	60	19.2	3.6	14.1*
Rock Flat Summit	5200	2/27	66	19.3	3.4	16.2
Secesh Summit	6520	2/27	97	35.1	5.6	--
Squaw Meadow	5800	2/27	99	35.7	5.7	31.1*
Tripod Summit	5200	2/28	57	20.3	3.6	15.8*

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SNOW

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WEISER RIVER

Boulder Creek	5500	2/27	69	22.6	3.7	21.8*
Placer Creek	6000	3/1	56	18.3	3.0	15.9*

MANN CREEK

Mann Creek	6080	2/26	74	26.1	4.2	--
Robinson Creek Ridge	6220	2/26	59	22.1	3.3	--
Sturgill Ridge	6800	2/26	83	29.3	5.2	--
Thorson Cabin	5320	2/26	43	16.0	2.8	--

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp		7760	2/28	36	11.6	2.7	13.2*
Clear Creek Meadows	Utah	9050	2/28	64	20.9	3.9	18.2*
George Peak	Utah	9000	2/28	68	24.5	3.5	--
Howell Canyon		8000	2/28	61	22.3	3.6	22.2
One Mile Summit	Utah	7330	2/28	17	4.5	0.9	6.8*
Sheep Hollow		6200	2/28	24	7.0	2.5	5.6*
Sublett		6000	2/28	36	11.0	2.6	9.9
Summit Springs		6400	2/28	35	11.3	2.6	9.7*

GOOSE-TRAPPER CREEKS

Badger Gulch		6660	2/28	36	11.1	2.1	10.1
Bostetter Ranger Station		7500	2/28	60	19.4	2.9	17.5
Vi Pont (A)	Utah	7670	2/28	46	15.0	4.0	12.7*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	2/26	60	20.7	8.6	17.3
Cedar Creek		7000	2/26	30	8.9	2.5	8.8
Deadline		6900	2/26	54	19.2	3.0	19.9
#Fox Creek	Nev.	6800	2/26	38	10.7	4.8	9.3
Goat Creek	Nev.	8800	2/26	53	17.6	6.0	16.0
#Hummingbird Springs	Nev.	8945	2/26	68	22.8	7.0	19.5
Magic Mountain		6700	2/26	56	18.5	3.3	16.2
#Pole Creek R. St.	Nev.	8330	2/26	51	16.3	7.9	16.8
Shoshone Basin		5740	2/26	21	5.8	0.6	4.2
Wilson Creek		7500	2/26	41	12.2	3.7	11.4*

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NAME	Elevation				Last Year	Average <i>b</i>

BRUNEAU RIVER

Bear Creek	Nev.	7800	2/26	60	20.7	8.6	17.3
Fox Creek	Nev.	6800	2/26	38	10.7	4.8	9.3
Hummingbird Springs	Nev.	8945	2/26	68	22.8	7.0	19.5
Pole Creek R. S.	Nev.	8330	2/26	51	16.3	7.9	16.8
#Seventy-six Creek	Nev.	7100	2/26	40	13.4	4.3	10.0*

OWYHEE RIVER

Antelope Ridge		5900	3/3	26	8.8	0.2	6.1*
Battle Creek (A)		5700	2/28	18	5.0	0.1	2.9
#Bear Creek	Nev.	7800	2/26	60	20.7	8.6	17.3
Bull Basin (A)		5600	2/28	8	2.2	0.2	1.1*
#Fox Creek	Nev.	6800	2/26	38	10.7	4.8	9.3
Hyde Pasture (A)		5800	2/28	24	7.0	0.4	4.9
Mud Flat		5500	3/3	32	11.3	0.4	5.4
Red Canyon (A)		6650	2/28	28	8.4	2.4	5.9*
#Seventy-six Creek	Nev.	7100	2/26	40	13.4	4.3	10.0*
Silver City		6400	2/28	50	15.6	3.5	13.8
South Mountain		6340	2/25	43	15.8	2.6	11.3
Succor Creek (A)		6100	2/28	27	8.1	2.4	5.4*
Triangle (A)		5150	2/28	T	0.1	0.1	0.6
Vaught Ranch (A)		5950	2/28	24	7.0	0.1	3.3*
War Eagle (A)		7700	2/28	75	23.2	5.4	22.1*

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Camp Creek		6800	2/28	37	9.3	1.5	9.0
Kilgore		6200	2/27	43	14.0	3.0	10.1

HENRYS FORK RIVER

Big Springs		6400	2/27	70	23.5	6.0	18.6
Grassy Lake	Wyo.	7230	2/27	119	34.9	12.4	30.1
Island Park		6315	2/27	61	20.0	5.2	14.7
Sawtell Mountain		8720	2/27	101	36.2	7.7	30.4*
Targhee Pass		7000	2/27	52	16.0	4.5	13.5*
Valley View		6500	2/27	52	17.2	4.9	15.4
White Elephant		7700	2/27	90	31.6	6.0	--

TETON RIVER

Darby Canyon	Wyo.	8250	3/4	68	23.5	5.8	--
Freds Mountain	Wyo.	8150	3/4	84	28.8	6.8	--
Garns Mountain		8300	3/4	106	38.2	8.8	--

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NAME						Last Year	Average ¹ / ₁
Indian Meadows	Wyo.	8240	3/4	101	33.4	9.9	--
Jackpine Creek	Wyo.	7350	3/4	77	26.0	6.0	--
McRenolds Reservoir		6800	3/4	69	22.1	6.0	--
Miles Creek	Wyo.	7300	3/4	52	17.1	4.8	--
Phillips Bench	Wyo.	8200	2/28	96	35.8	9.5	--
Pine Creek Pass		6750	3/4	59	19.4	4.4	15.4*
State Line		6650	3/4	49	14.9	2.6	12.8
Teton Pass W.S.	Wyo.	8400	2/28	88	30.8	6.9	--

WILLOW CREEK

Aspen Grove		6600	2/28	43	11.5	3.0	10.3*
Birch Creek		6800	2/28	32	9.9	2.1	14.3*
Blue Ridge		6800	2/28	50	17.2	2.8	--
Bone		6200	2/28	29	8.5	1.2	7.5*
Brockman Station		6430	2/28	36	12.2	1.9	--
Hell Creek		7100	2/28	50	16.6	3.0	--
Mud Creek		7150	2/28	53	17.9	2.2	--
Sheep Mountain		6510	2/28	46	13.5	2.8	12.6*
Tex Creek		6700	2/28	33	9.6	2.0	8.5*

SAND CREEK

Henry Creek		5650	2/28	27	8.6	0.0	2.4*
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BLACKFOOT RIVER

Austin Bros. Ranch		6400	2/28	38	12.7	0.5	7.9
Slug Creek Divide		7225	3/1	64	21.4	5.0	14.7*
Somsen Ranch		7000	2/28	56	18.2	3.8	12.0
Ten Mile Pass		6250	2/28	39	12.2	2.8	--

PORTNEUF RIVER

Dempsey Creek		6280	2/26	44	15.3	3.8	10.6
Lower Pebble		5800	2/26	48	15.5	4.2	12.1*
Mink Creek		6300	2/25	46	15.2	4.9	15.0
Pebble Creek		6550	2/26	54	18.0	2.8	14.5

GREAT BASINBEAR RIVER

Emigrant Summit		7350	2/23	82	28.2	4.3	21.8*
Emigration Canyon		6500	2/23	41	13.2	2.7	9.7*

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Montpelier Creek

Giveout	6840	3/2	55	15.6	3.1	11.0*
Little Beaver	6970	3/2	60	19.8	3.2	14.0*
Lower Home Canyon	7500	3/1	56	17.3	3.6	--
Montpelier Creek	6570	2/27	44	13.5	1.2	7.5*
Upper Home Canyon	8500	3/2	79	28.4	6.4	--
Whiskey Flat	6985	3/2	44	13.2	2.0	8.9*

Mink Creek

Christensen Ranch	5600	2/24	33	11.2	3.4	7.7
Dry Basin	7900	2/24	89	33.8	6.7	25.3*
#Emigrant Summit	7350	2/23	82	28.2	4.3	21.8*
Horseshoe Basin	8000	2/24	78	31.9	6.9	23.2*
Liberty Spring	8600	2/24	116	44.4	7.0	33.8*
Strawberry Creek	5800	2/23	38	12.4	2.1	9.6
Strawberry Mink Divide	6800	2/24	72	25.6	3.9	18.6

Cub River

Cub River R.S.	5400	2/24	30	11.0	4.5	8.0
#Franklin Basin	8000	2/24	69	26.7	7.0	--
Willow Flat	6100	2/24	53	18.7	4.8	13.7
Worm Creek	6660	2/24	62	22.5	3.9	--

MALAD RIVER

Cliff Canyon	7200	2/24	37	12.3	1.2	--
Daniels Creek	6400	2/24	25	7.9	0.8	--
Dry Creek Flat	6480	2/24	31	11.3	1.1	6.6
Lower Elkhorn	7000	2/24	54	19.9	1.8	12.4*
Oxford Mountain	6800	2/24	38	12.6	1.0	9.4
Upper Elkhorn	7100	2/24	68	24.4	3.4	16.0*

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

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